

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number
WO 2005/080038 A1

(51) International Patent Classification⁷: **B23C 5/24**

(74) Agent: **KLÖFVER, Jörgen**; Sandvik AB, Intellectual Property, S-811 81 Sandviken (SE).

(21) International Application Number:
PCT/SE2005/000216

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 17 February 2005 (17.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0400385-1 20 February 2004 (20.02.2004) SE

(71) Applicant (*for all designated States except US*): **SANDVIK AB** [SE/SE]; S-811 81 Sandviken (SE).

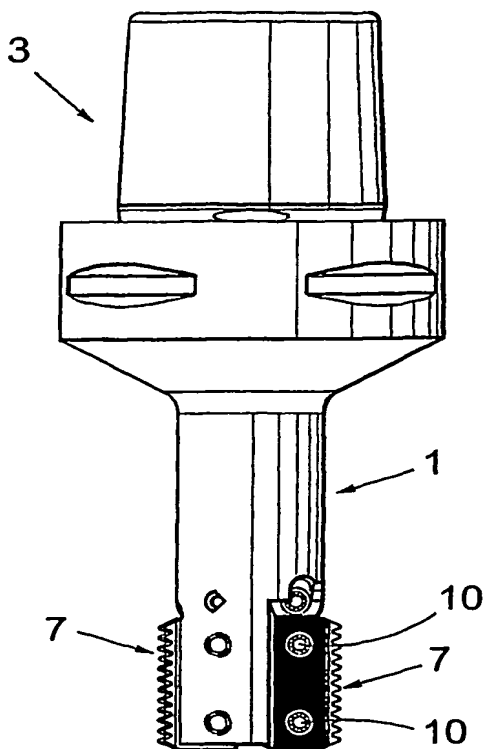
(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **SJÖÖ, Sture** [SE/SE]; Stigsrundan 75, S-806 42 Gävle (SE). **OLSSON, Helena** [SE/SE]; Klintbergsgatan 13, S-803 24 Gävle (SE). **FORSSELL, Per** [SE/SE]; Kurrasbacken 18, S-811 52 Sandviken (SE).

[Continued on next page]

(54) Title: **SLOT MILLING CUTTER**



(57) Abstract: The present invention relates to a slot milling cutter, which comprises a cutting head (1) as well as a fastener (3) integrated with the cutting head, which fastener is intended to be received in a tool coupling, the cutting head (1) being provided with at least two insert seats (5), and cutting inserts (7) being mounted in the insert seats (5). The invention also relates to a cutting insert (7) separately. Characteristic of the present invention is that the insert seats (5) are provided with first serrations (4), that the cutting inserts (7) are provided with second serrations (11), which are arranged on at least one main surface (8) of the cutting inserts (7), that the first and second serrations (4, 11) extend in the axial direction (C-C) of the slot milling cutter, that a stabilization of the cutting insert (7) is effected in the radial direction of the slot milling cutter by co-operation between the first and second serrations (4, 11), and that adjacent to at least one of the insert seats (5), means (14-20) are arranged in order to adjust the position of the appurtenant cutting insert (7) in the axial direction (C-C) of the slot milling cutter.

WO 2005/080038 A1



Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.